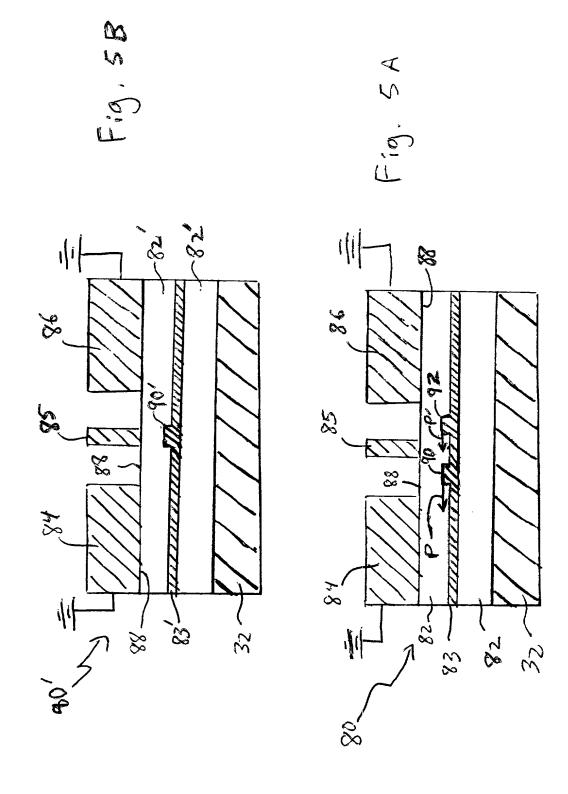
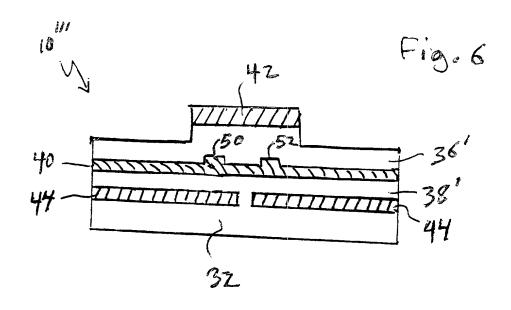
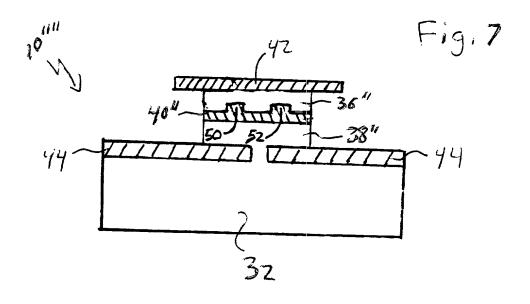


Transmitting an optical carrier wave to an optical waveguide of a modulator
to an optical wavequide of a modulator
カー
Transmitting a control wave to a control
Waveguide to electro-optically modulate
the velocity of the optical carrier wave in the optical waveguide, the effective re-
the optical waveguide, the effective re-
fractive index seen by the control wave
inside the modulator's dielectric being
larger than the effective retractive
index seen by the optical carrier wave
74
V
Interfering the modulated optical
V
Interfering the modulated optical
Interfering the modulated optical carrier wave with another mutually cohererent carrier wave
Interfering the modulated optical carrier wave with another mutually cohererent carrier wave  Transmitting the interfered waves
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Interfering the modulated optical carrier wave with another mutually cohererent carrier wave  Transmitting the interfered waves
Interfering the modulated optical carrier wave with another mutually cohererent carrier wave  Transmitting the interfered waves



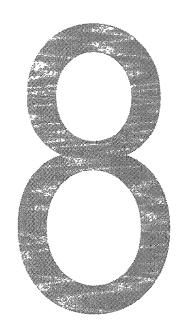




## UNITED STATES PATENT AND TRADEMARK OFFICE DOCUMENT CLASSIFICATION BARCODE SHEET



# Oath/Declaration, Small Entity, and Power of Attorney



Level - 2 Version 1.1 Updated - 8/01/01

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#### **Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Electro-Optical Modulators** the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

#### None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

#### None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

(Reg. No. 37590) Kenneth M. Brown Donald P. Dinella (Reg. No. 39961) Martin I. Finston (Reg. No. 31613) Barry H. Freedman (Reg. No. 26166) Julio A. Garceran (Reg. No. 37138) Jimmy Goo (Reg. No. 36528) Stephen M. Gurey (Reg. No. 27336) John M. Harman (Reg. No. 38173) David W. Herring, Jr. (Reg. No. P-51069) Matthew J. Hodulik (Reg. No. 36164) Eugene S. Indyk (Reg. No. 30711) Michael B. Johannesen (Reg. No. 35557) Irena Lager (Reg. No. 39260) John B. MacIntyre (Reg. No. 41170) Christopher N. Malvone (Reg. No. 34866) John F. McCabe (Reg. No. 42854) (Reg. No. 28975) Michael A. Morra Gregory J. Murgia (Reg. No. 41209) Neil R. Ormos (Reg. No. 35309) Eugene J. Rosenthal (Reg. No. 36658) Bruce S. Schneider (Reg. No. 27949) Ozer M. N. Teitelbaum (Reg. No. 36698) Jeffrey M. Weinick (Reg. No. 36304)

Please address all correspondence to the Docket Administrator (Rm. 3J-219), Lucent Technologies Inc., 101 Crawfords Corner Road, Holmdel, New Jersey 07733-3030. Telephone calls should be made to John F. McCabe by dialing 908-582-6866.

Full name of 1st joint inventor: Christoph Georg Erben

Inventor's signature Cars LE a Date 12/24/01

Residence: Berkeley Heights, Union County, New Jersey

Citizenship: German

Post Office Address: 82 Briarwood Drive

Berkeley Heights, New Jersey, 07922

1

Full name of 2<sup>nd</sup> inventor: Douglas M Gill

Inventor's signature \_\_\_

Residence: Hoboken, Hudson County, New Jersey

Citizenship: United States of America

Post Office Address: 927 Hudson Street, No. 4

Hoboken, New Jersey, 07030

Date 12/21/01

Full name of 3<sup>rd</sup> inventor: Howard Edan Katz

Inventor's signature,\_

Residence: Summit, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 135 Butler Parkway

Summit, New Jersey, 07901

Full name of 4<sup>th</sup> inventor: Mark Lee

Inventor's signature Man See Date 12/21/2001

Residence: Berkeley Heights, Union County, New Jersey

Citizenship: United States of America

Post Office Address: 72 Holly Glen Lane South

Berkeley Heights, New Jersey, 07922